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NOKIA
CONSUMER ELECTRONICS

Service-Manual

R

1992

NOKIA HiFi 8900

IDENT-NO.: 5569 23 30

LUXOR

IDENT-NO.: 5560 00 70

⚠ **Sicherheitsbauteil!**
Dieses Symbol kennzeichnet in den Schaltbildern alle Bauteile, die nur durch Originalteile ersetzt werden dürfen.

Bei Reparaturen gültige Sicherheitsvorschriften beachten!

⚠ **Safety Component!**
This symbol identifies in the circuit diagrams all safety critical parts. Replace only with specified part numbers.

Service and repair work to be performed only in accordance with existing safety regulations!

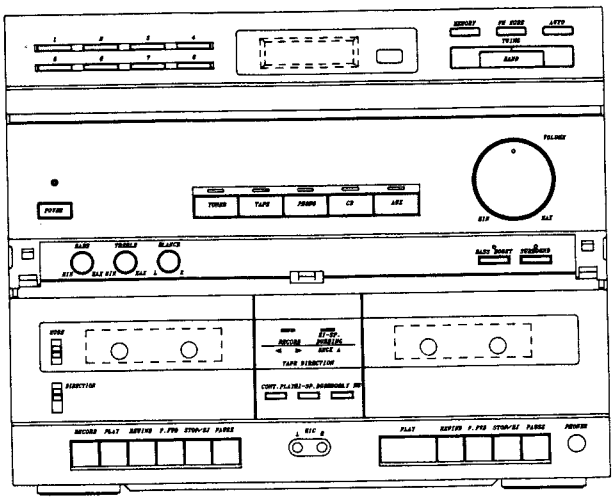
⚠ **Composant de protection!**
Ce symbol indique tous les composants dans les schémas,
qui doivent être remplacés uniquement par des pièces d'origines.

Pendant le dépannage respecter les régulations du sécurité!

Änderungen vorbehalten Modifications reserved Modifications réservées | **6611 74 08** (9253) WE

1522

NOKIA LUXOR



MODEL NO. HIFI 8900
AM/FM STEREO RECEIVER/
CASSETTE PLAYER/CASSETTE
RECORDER

SPECIFICATION

AM/FM TUNER SECTION		
ANTENNA SYSTEM	AM:	IRE LOOP
	FM:	75 OHM UNBALANCE
TUNING RANGE	AM:	531-1602 KHz
	FM:	87.5-108 MHz
INTERMEDIATE FREQUENCY		
	AM:	450 kHz
	FM:	10.7 MHz
MULTIPLEX SEPARATION		30 dB (At 1KHz)
AUDIO SECTION		
SPEAKER IMPEDANCE		8 OHM
OUTPUT POWER		40W x 2 (At 1% THD)
FREQUENCY RESPONSE		30Hz - 30kHz
SIGNAL TO NOISE RATIO		70dB
TONE CONTROL (Boost/Cut at 1kHz)		+10/-10dB
POWER SUPPLY		AC 230V, 50Hz
POWER CONSUMPTION		32 WATTS
CASSETTE SECTION		
TAPE SPEED		1-7/8 IPS (4.75cm P.S.)
FREQUENCY RESPONSE		125 Hz - 12.5kHz
WOW & FLUTTER		0.25% WRMS
DIMENSION		W: 14" x H: 11" x D: 11-3/4"
WEIGHT		9 kgs

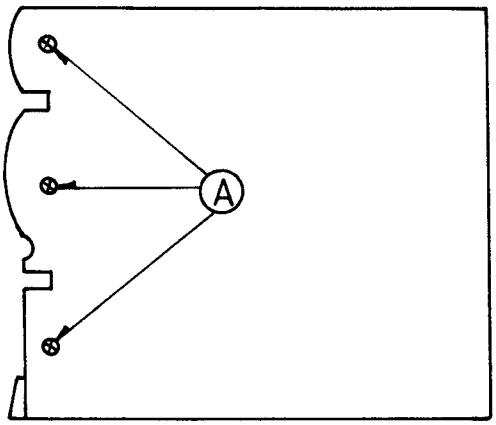


Figure 1

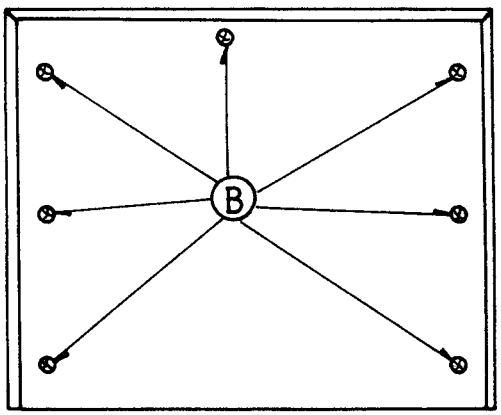


Figure 2

1. Remove top cover
   a. Remove 6 screws (A) from front penal. (See figure 1)
   b. Remove 7 screws (B) from back board. (See figure 2)
   c. Top cover can now be removed.

Electrical Adjustment

Equipment required:
1. AM signal generator.
2. FM signal generator.
3. VTVM.
4. DC volt meter.

Notes:
1. Signal input must be as low as possible to avoid overload and clipping.(Use highest sensitivity of output indicator).
2. Volume control at maximum,balance and tone control,at mechanical center.
3. Standard modulation is 400Hz at 30% amplitude for AM,1000 Hz at 22.5 kHz deviation for FM.
4. Connect 8 ohm load across speaker jack.

AM IF Adjustment

Signal Source	Signal Generator Frequency	Alignment Indicator	Frequency Setting	Adjustment	Remarks
AM IF sweep generator connected to a standard radiating loop	Sweep centered 450 kHz	Oscilloscope connected to AM test point IF/OP (TP1) and ground (TP2)	Tuning to Lowest freq.	T101	Adjust for maximum output
Repeat adjustment as necessary for maximum sensitivity.					

AM RF Adjustment

Signal Source	Signal Generator Frequency	Alignment Indicator	Frequency Setting	Adjustment	Remarks
AM signal generator connected to a standard radiating loop	531 kHz (Modulated)	DC meter across VT and ground	Lowest freq.	L102	DC Meter 1V +-0.05V
	1610 kHz (Modulated)		Highest freq.	TC102	DC Meter 7V +-0.05V
	Repeat adjustments as necessary to obtain frequency range.				
	603 kHz (Modulated)	VTVM across speaker jack (Using 8 ohm resistive load)	600 kHz	L101	Adjust for maximum output
	1404 kHz (Modulated)		1400 kHz	TC101	
	Repeat adjustments as necessary to obtain frequency range.				

FM RF Adjustment

Signal Source	Signal Generator	Alignment Indicator	Frequency Setting	Adjustment	Remarks
FM signal generator connected to Ext. Ant. terminal. Matching network used.	87.5 MHz 107.9 MHz	DC meter connected to VT and GND.	Lowest freq.	NONE	DC Meter to indicate 1.6V,+-0.1V
			Highest freq.	NONE	DC Meter to indicate 8V +-0.1V
	Repeat adjustments as necessary to obtain frequency range.				
	90 MHz (Modulated)	VTVM across SP.jack (Using 8 ohm resistive load)	90 MHz	NONE	CHECK for maximum output
	106 MHz (Modulated)		106 MHz	NONE	
	Repeat adjustments as necessary to minimize tracking error.				

FM MPX Adjustment

Equipment required:

1. Signal generator.....Modulation rate by pilot signal.....10%
   Modulation rate by main signal (L+R).....45%
   Modulation rate by pilot signal (L+R).....45%
2. Frequency counter,Dummy antenna,VTVM.
   Band switch to FM. Tuning approx,98MHz.

Item	Signal Source	Signal Generator Frequency	Alignment Indicator	Dial Setting	Tuning Adjustment	Remarks
Adjustment of pilot signal	FM signal generator connected to FM Ext. Ant. terminal. Matching network used. Modulation OFF.	98 MHz (1 mV)	Frequency counter through Buffer and connected to TP3 & GND (TP1 & TP2 short)	98 MHz	SFR101	Measure pilot signal only and adjust for 76 kHz (+- 200Hz)

FM IF Adjustment

Signal Source	Signal Generator	Alignment Indicator	Frequency Setting	Adjustment	Remarks
FM IF sweep generator connected to FM Ext. Ant Matching network used.	Sweep centered 10.7 MHz	Oscilloscope connnected to IF test point IF/OP TP1 and ground (TP2)	90 MHz	T102	Adjust for maximum amplitude and proper linearity between +- 100 kHz markers.

Distortion Adjustment

Item	Signal Source	Alignment Indicator	Adjustment	Remarks
Adjustment of Distortion	98MHz DEV. 22.5KHz 60dB Signal I/P from FM ANT. Terminal	Distortion Meter connected to speaker terminals	IFT (Front END) See Fig. 3	Distortion under 0.8%

Tape Speed Adjustment

Notes: 1. Use Test Tape MTT-111N. (3 KHz signals are recorded on the tape.)

Normal Speed Adjustment

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	Normal speed adj.	Frequency counter. connected to CASS. PCB 3P Housing "N"	Playback the Test Tape MTT-111N. A side mecha.	Turn the SFR512 on the main board.	2940Hz-3060Hz	See Fig.4

2	Normal speed adj.	Frequency counter. connected to CASS. PCB 3P Housing "N"	Playback the Test Tape MTT-111N. B side mecha.	Turn the SFR510 on the main board.	2940Hz-3060Hz	See Fig.4

High Speed Adjustment

Notes: 1. Set the DUBBING switch .....ON
2. Set the NORMAL/HIGH switch.....HIGH

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	High Speed adj.	Frequency counter. connected to CASS. PCB 3P Housing "N"	Playback the Test Tape MTT-111N. A side mecha.	Turn the SFR511 on the main board.	5172Hz-5380Hz	TP8 & GND Short
2	High Speed adj.	Frequency counter. connected to CASS. PCB 3P Housing "N"	Playback the Test Tape MTT-111N. B side mecha.	Turn the SFR509 on the main board.	5172Hz-5380Hz	TP9 & GND Short

Playback Adjustment

Notes: 1. Before this adjustment,clean REC/P.B. head surface.
2. For this adjustment,use Test Tape,MTT-257K and MTT-150.
3. Set the Dolby NR switch to OFF.

a-Side Mecha. Adjustment

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	REC/P.B. head adj.	VTVM connected to cass. PCB 3P Housing "N"	Playback the TEST TAPE MTT-257K IN "▷" Direction	Adjust the azimuth adjusting L side screw in Fig. 6	Max. output both channels.	After this adjustment, lock the screw with paint.
2	REC/P.B. head adj.	VTVM connected to cass. PCB 3P Housing "N"	Playback the TEST TAPE MTT-257K IN "◁" Direction	Adjust the azimuth adjusting R side screw in Fig. 6	Max. output both channels.	After this adjustment, lock the screw with paint.
3	Playback Level adj.	VTVM connected to cass. PCB 3P Housing "N"	Playback the TEST TAPE MTT-150. Both in "▷" & "◁" Direction	Adjust each SFR503 (L) and SFR504 (R), cassette board.	548 mV +-1dB	See Fig. 4 Dolby NR. OFF Mode " "

b-Side Mecha. Adjustment

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	P. B. head adj.	VTVM connected to cass. PCB 3P Housing "N"	Playback the TEST TAPE MTT-257K. IN "▷" Direction	Adjust the azimuth adjusting L side screw in Fig. 5	Max. output both channels.	After this adjustment, lock the screw with paint.
2	P. B. head adj.	VTVM connected to cass. PCB 3P Housing "N"	Playback the TEST TAPE MTT-257K. IN "◁" Direction	Adjust the azimuth adjusting R side screw in Fig. 5	Max. output both channels.	After this adjustment, lock the screw with
3	Playback level adj.	Same as above.	Playback the TEST TAPE MTT-150. Both in "▷" & "◁" Direction	Adjust each SFR501 (L) and SFR502(R), main board.	548 mV +-1dB	See Fig. 4 Dolby NR. OFF Mode "⇌"

Bias Adjustment

Notes: 1. For,this adjustment,use Test Tape MTT-5521
2. Set the Dolby NR switch.....OFF

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	Bias frequency adj.	Frequency counter connected to TP6 and TP5	1. Load the TEST TAPE MTT-5521 2. Push the REC and Play button.	Turn the core of L509	90 kHz +-1 kHz	See Fig. 4

Bias Leakage Adjustment

Notes: Use test tape MTT-5521

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	Trap coil adj.	Frequency counter connected to TP6 and TP5	MTT-5521 Push the REC and Play button.	Turn the core of L501 L-CH,and L502 R-CH. Cassette board.	Min. output both channels. (under 10mV)	

Filter Adjustment (a-Side Mecha Only)

Notes: 1. Dolby SW;Hi-speed SW.OFF.

Step	Subject	Input Signal	Measure output	Setting	Adjust For	Remarks
1	19 kHz filter adj.	Feed 19 kHz from audio S.G. into AUX IN.	VTVM connected to Cass. PCB 3P Housing "N"	Push the REC and PLAY button.	Turn the core of L503 L-CH and L504 R-CH. Min. output both channels.	

Bias Current Adjustment (a-Side Mecha. Only)

Notes: 1 Set tape selector in normal position.

Step	Subject	Measure Output	Setting	Adjustment	Adjust For	Remarks
1	Bias Current	VTVM connected to TP2 & TP1	Test tape MTT-5521 Push the REC & PLAY button.	Adjust for SFR507	O/P=4.2mV	
2	Bias Current	VTVM connected to TP4 & TP3 (GND)	Same as above.	Adjust for SFR508	O/P=4.2mV	

R/P Level Adjustment

Notes 1. Set Dolby SW. and Hi-speed SW. OFF.

Step	Subject	Measure Output	Input Signal	Setting	Adjustment	Adjust For	Remarks
1	R/P level adj.	VTVM connected to Cass. PCB 3P Housing "N"	f=1 kHz from audio S.G. into AUX IN.	Test Tape MTT-5521 Push the REC and PLAY button.	Adjust for SFR505(L) and SFR506(R).	O/P=200mV (+-1db)	See fig. 4

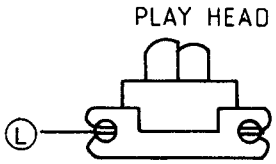


Figure 5

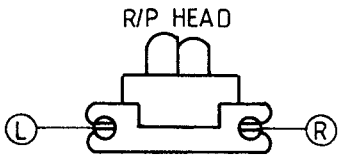


Figure 6

Adjustments Location

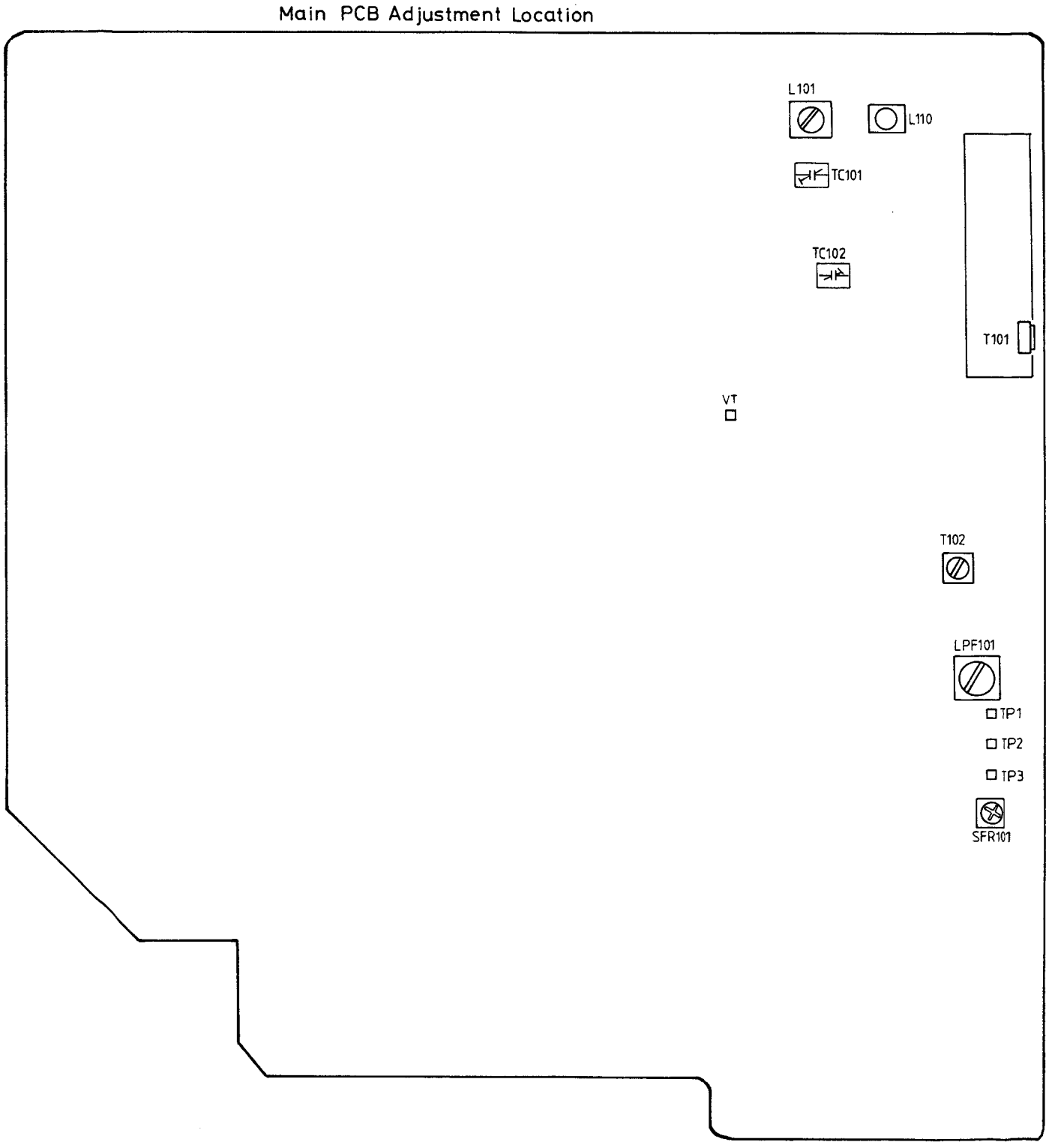


Figure 3

Adjustments Location

Cassette main PCB Adjustment Location

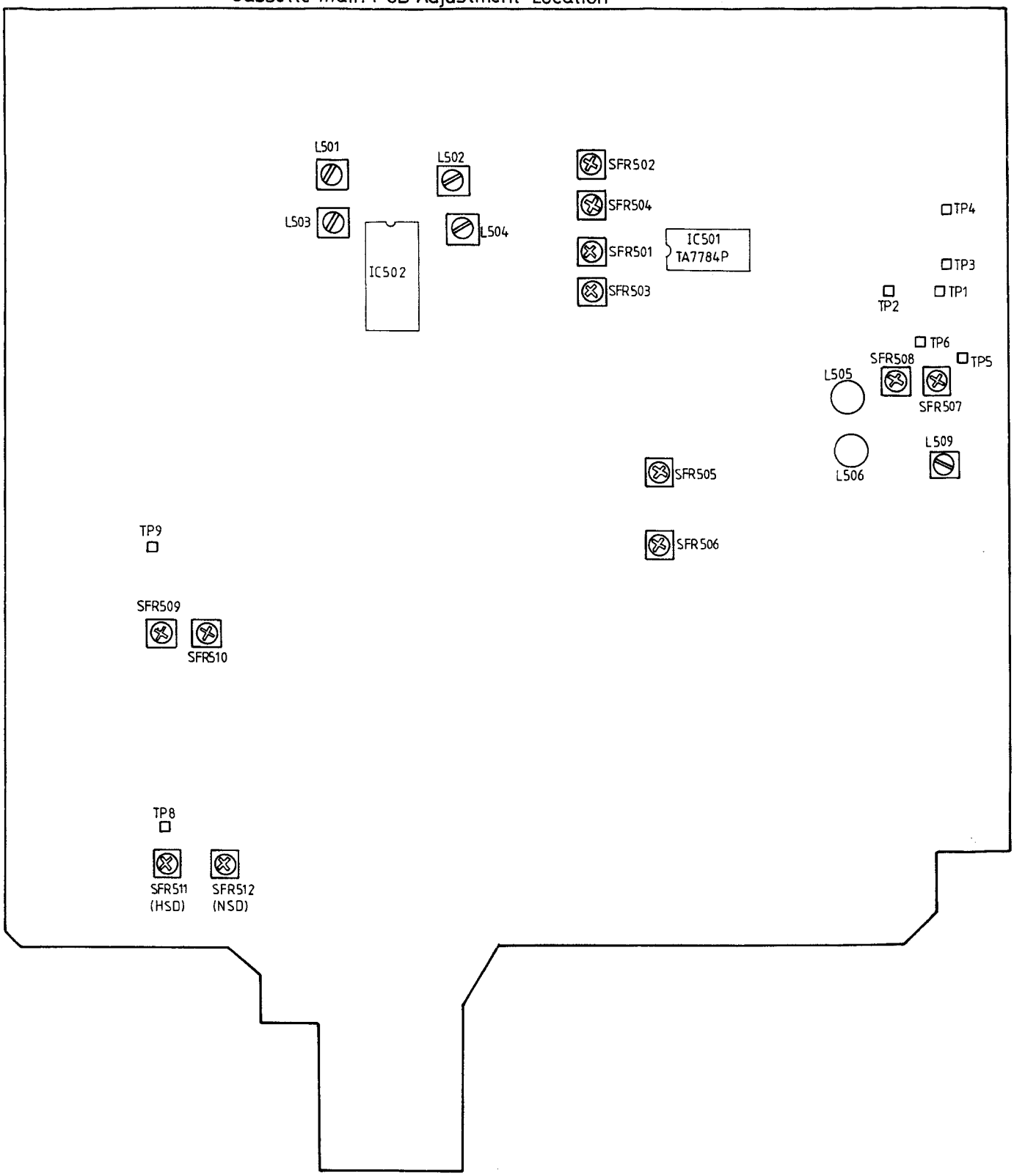


Figure 4

Pos.-Nr. Ref.No. No.de pos.	Gegenstand Description Description	Bestell-Nr. Part No. No.de comm.
Integrierte Schaltungen **Integrated Circuits** **Circuits Intégrés**		
IC 101	IC LA 1805	3771 66 77
IC 102	IC LA 3161	7368 98 29
IC 103	IC LC 7821	3771 66 78
IC 104	IC NJM 4558 DA	3771 66 79
IC 105	IC STK 4172-2	3771 66 95
IC 106	IC UPC 1237 H	3771 66 96
IC 201	IC NJM 4558 DA	3771 66 79
IC 202	IC LC 7818	3771 57 33
IC 203	IC NJM 4558 DA	3771 66 79
IC 204	IC LB 1641	3771 54 25
IC 205	IC 74 HC 375 AP	3771 66 97
IC 206	IC LC 7230-8307	3771 66 81
IC 207	IC MC 78 L 05 CT	3771 66 82
IC 208	IC MC 78 L 05 CT	3771 66 82
IC 401	IC MC 7815 CT	3771 62 43
IC 501	IC TA 7784 P	3771 48 02
IC 502	IC CXA 1331 S	3771 66 98
IC 503	IC M 218 AL	3771 66 83
IC 504	IC BA 3308	3771 65 58
IC 505	IC M 3742 M 4	3771 66 99
IC 506	IC L 78 M 05	6157 49 36
IC 601	IC M 66310 FP	3771 67 01
Transistoren **Transistors**		
Q 101	2 SC 1675 L	3614 38 56
Q 102	2 SC 945 P	6158 18 97
Q 103	2 SC 945 P	6158 18 97
Q 104	2 SC 945 P	6158 18 97
Q 105	2 SK 117 GR	3614 77 08
Q 106	2 SC 945 P	6158 18 97
Q 107	2 SC 1675 L	3614 38 56
Q 108	2 SC 945 P	6158 18 97
Q 109	2 SC 945 P	6158 18 97
Q 110	2 SC 945 P	6158 18 97
Q 111	2 SC 945 P	6158 18 97
Q 112	2 SC 945 P	6158 18 97
Q 113	2 SC 945 P	6158 18 97
Q 114	2 SC 945 P	6158 18 97
Q 115	2 SC 1841 F-T	3614 77 15
Q 116	2 SC 1841 F-T	3614 77 15
Q 117	2 SA 988 F-T	3614 77 16
Q 119	2 SC 945 P	6158 18 97
Q 120	2 SC 945 P	6158 18 97
Q 121	2 SC 945 P	6158 18 97
Q 122	2 SB 507 E	3614 77 09
Q 201	2 SC 945 P	6158 18 97
Q 202	2 SC 945 P	6158 18 97
Q 203	2 SC 945 P	6158 18 97
Q 204	2 SC 945 P	6158 18 97
Q 205	2 SC 945 P	6158 18 97
Q 205 A	2 SC 945 P	6158 18 97
Q 501	DTC 114 TS	3614 75 61
Q 502	DTC 114 TS	3614 75 61
Q 503	DTC 114 TS	3614 75 61
Q 504	2 SC 945 P	6159 18 97
Q 505	DTC 114 TS	3614 75 61
Q 506	DTC 114 TS	3614 75 61
Q 507	DTC 114 TS	3614 75 61
Q 508	DTC 114 TS	3614 75 61
Q 509	DTC 114 TS	3614 75 61
Q 510	DTC 114 TS	3614 75 61
Q 511	DTC 114 TS	3614 75 61
Q 512	DTA 144 ES	3614 52 52
Q 513	DTC 114 TS	3614 75 61
Q 514	DTC 114 TS	3614 75 61
Q 515	DTC 114 TS	3614 75 61
Q 516	2 SC 945 P	6158 18 97
Q 517	2 SC 945 P	6158 18 97
Q 518	2 SC 945 P	6158 18 97
Q 519	2 SC 945 P	6158 18 97
Q 520	DTC 114 TS	3614 75 61
Q 521	2 SC 945 P	6158 18 97
Q 522	2 SC 945 P	6158 18 97
Q 523	DTC 114 TS	3614 75 61
Q 524	DTC 114 TS	3614 75 61

Pos.-Nr. Ref.No. No.de pos.	Gegenstand Description Description	Bestell-Nr. Part No. No.de comm.
Transistoren **Transistors**		
Q 525	DTC 114 TS	3614 75 61
Q 526	DTC 114 TS	3614 75 61
Q 527	DTC 114 TS	3614 75 61
Q 528	DTC 114 TS	3614 77 10
Q 529	DTC 114 TS	3614 77 10
Q 530	DTC 114 TS	3614 75 61
Q 531	2 SC 2060 Q,R	3614 77 17
Q 532	2 SC 2001 L	3614 77 12
Q 533	2 SC 2060 Q,R	3614 77 17
Q 534	2 SC 945 P	6158 18 97
Q 535	2 SC 945 P	6158 18 97
Q 536	2 SC 945 P	6158 18 97
Q 537	DTC 114 TS	3614 77 10
Q 538	2 SA 952 K,L	3614 77 18
Q 539	2 SC 945 P	6158 18 97
Q 540	2 SC 945 P	6158 18 97
Q 541	2 SC 945 P	6158 18 97
Q 542	2 SC 945 P	6158 18 97
Q 543	2 SC 945 P	6158 18 97
Q 544	2 SC 945 P	6158 18 97
Q 545	2 SC 945 P	6158 18 97
Q 547	2 SC 945 P	6158 18 97
Q 548	2 SC 945 P	6158 18 97
Q 549	2 SA 952 K,L	3614 77 18
Q 550	2 SC 945 P	6158 18 97
Q 551	2 SC 945 P	6158 18 97
Q 552	2 SC 945 P	6158 18 97
Q 553	2 SC 945 P	6158 18 97
Q 554	2 SA 952 K,L	3614 77 18
Q 555	2 SA 952 K,L	3614 77 18
Q 556	2 SC 945 P	6158 18 97
Q 557	2 SC 945 P	6158 18 97
Q 558	2 SC 945 P	6158 18 97
Q 559	2 SC 945 P	6158 18 97
Q 560	2 SC 945 P	6158 18 97
Q 561	2 SC 945 P	6158 18 97
Q 562	DTC 114 TS	3614 77 10
Q 563	DTC 144 ES	3614 52 52
Q 564	DTC 144 ES	3614 52 52
Q 565	2 SC 945 P	6158 18 97
Q 566	2 SC 945 P	6158 18 97
Q 567	DTC 114 TS	3614 75 61
Q 568	DTC 114 TS	3614 77 10
Q 569	2 SA 952 K,L	3614 77 18
Q 570	2 SA 733 P,Q	3614 77 19
Q 571	2 SC 945 P	6158 18 97
Q 572	DTC 114 TS	3614 75 61
Q 573	DTC 144 ES	3614 52 52
Dioden **Diodes**		
D 101 A	1 SV 149 B	3656 36 15
D 101 B	1 SV 149 B	3656 36 15
D 102	1 N 4148	3656 08 18
D 102	1 N 4148	3656 08 18
D 104	RD 5.6 EB 2	3656 36 16
D 105	1 N 4148	3656 08 18
D 106	1 N 4148	3656 08 18
D 108	1 N 4002 L	3656 36 17
D 109	1 N 4148	3656 08 18
D 110	1 N 4148	3656 08 18
D 111	1 N 4148	3656 08 18
D 112	1 N 4148	3656 08 18
D 113	1 SS 142/T-77	3656 36 21
D 115	1 N 4148	3656 08 18
D 201	LED 125 YT TR 2-11	3681 18 37
D 202	LED 125 YT TR 2-11	3681 18 37
D 203	LED 125 YT TR 2-11	3681 18 37
D 204	LED 125 YT TR 2-11	3681 18 37
D 205	LED 125 YT TR 2-11	3681 18 37
D 206	LED 484 VYT/CT	3681 18 41
D 207	LED 484 VYT/CT	3681 18 41
D 208	LED 484 VYT/CT	3681 18 41
D 209	LED 484 VYT/CT	3681 18 41
D 210	LED 484 VYT/CT	3681 18 41

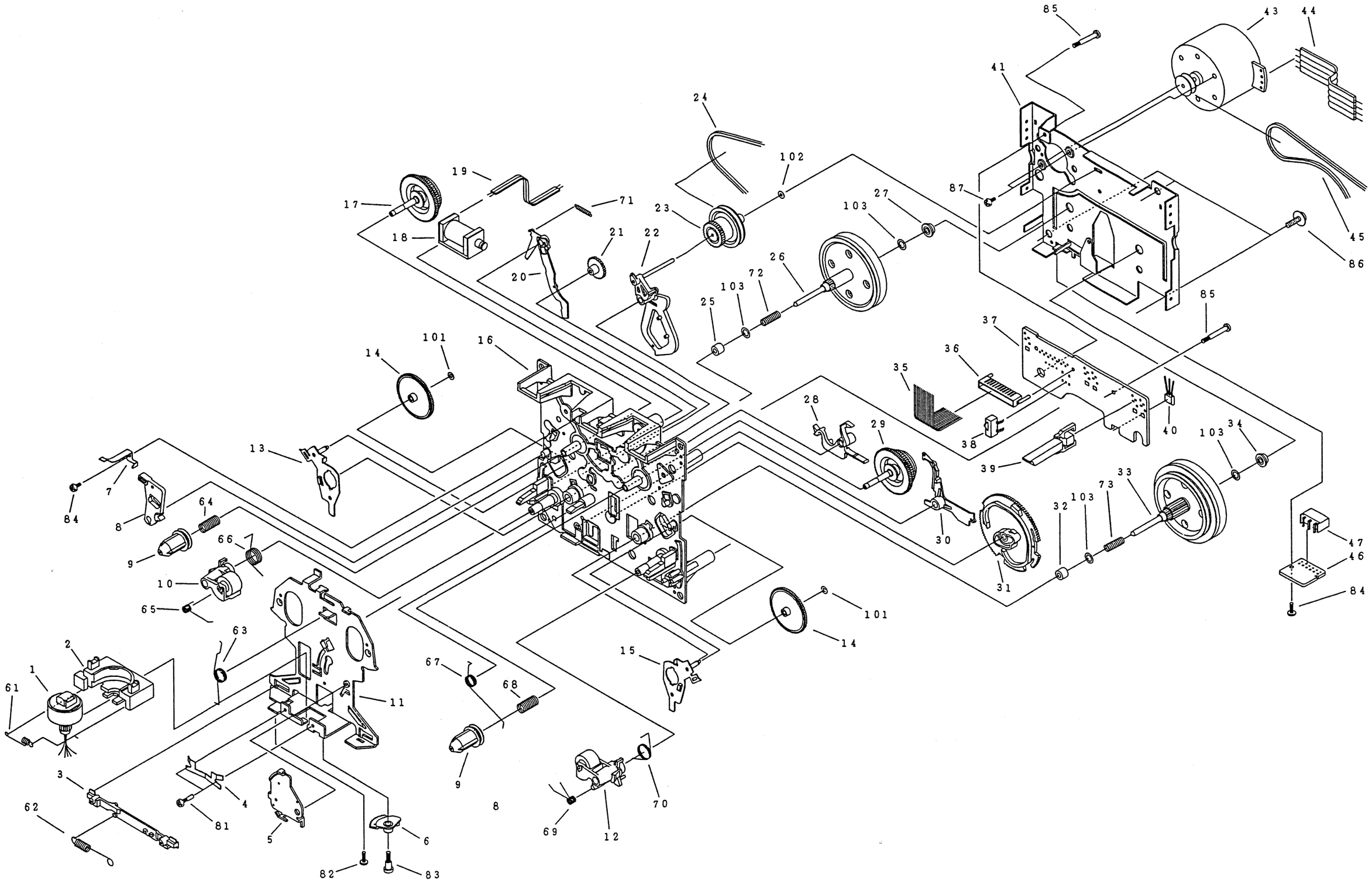
Pos.-Nr. Ref.No. No.de pos.	Gegenstand Description Description	Bestell-Nr. Part No. No.de comm.
Dioden **Diodes**		
D 211	LED 125 VT TR 2-11	3681 18 37
D 212	LED 125 VT TR 2-11	3681 18 37
D 213	LED E 12041 T P 8	3681 18 38
D 214	LED E 12041 T P 8	3681 18 38
D 216	RD 4.EB 2 T	3656 36 18
D 217	1 N 4148	3656 08 18
D 218	1 N 4148	3656 08 18
D 219	1 N 4148	3656 08 18
D 220	1 N 4148	3656 08 18
D 221	1 N 4148	3656 08 18
D 222	1 N 4148	3656 08 18
D 223	1 N 4148	3656 08 18
D 224	1 N 4148	3656 08 18
D 225	1 N 4148	3656 08 18
D 226	1 N 4148	3656 08 18
D 227	1 N 4148	3656 08 18
D 228	1 N 4148	3656 08 18
D 229	1 N 4148	3656 08 18
D 230	1 N 4148	3656 08 18
D 231	1 N 4148	3656 08 18
D 232	1 N 4148	3656 08 18
D 233	1 N 4148	3656 08 18
D 234	1 N 4148	3656 08 18
D 401	GBU 4 D	3656 36 19
D 402	B 20 SL	3656 36 20
D 403	1 SS 142/T-77	3656 36 21
D 404	1 N 4002 L	3656 36 17
D 405	RD 15 EB 2	3656 36 22
D 406	RD 15 EB 2	3656 36 22
D 501	1 SS 142/T-77	3656 36 21
D 502	1 SS 176	3656 30 34
D 503	1 SS 176	3656 30 34
D 504	1 SS 176	3656 30 34
D 505	1 SS 176	3656 30 34
D 506	1 SS 176	3656 30 34
D 507	1 SS 176	3656 30 34
D 508	1 N 4002 L	3656 36 17
D 509	1 N 4002 L	3656 36 17
D 510	1 SS 176	3656 30 34
D 511	1 SS 176	3656 30 34
D 512	1 SS 176	3656 30 34
D 513	1 SS 176	3656 30 34
D 514	1 SS 176	3656 30 34
D 515	1 SS 176	3656 30 34
D 516	1 SS 176	3656 30 34
D 517	1 SS 176	3656 30 34
D 518	1 SS 176	3656 30 34
D 519	1 N 4002 L	3656 36 17
D 520	1 N 4002 L	3656 36 17
D 521	1 N 4002 L	3656 36 17
D 522	1 N 4002 L	3656 36 17
D 523	1 N 4002 L	3656 36 17
D 524	1 SS 176	3656 30 34
D 525	1 SS 176	3656 30 34
D 526	1 SS 176	3656 30 34
D 527	1 SS 176	3656 30 34
D 528	1 SS 176	3656 30 34
D 529	1 SS 176	3656 30 34
D 530	1 SS 176	3656 30 34
D 532	1 SS 176	3656 30 34
D 601	LED 1254 GD/TR 2-9	3681 18 39
D 602	LED 1254 GD/TR 2-9	3681 18 39
D 603	LED 1254 VT/ TR 2-9	3681 18 43
D 604	LED 1254 VT/ TR 2-9	3681 18 41
D 605	LED 1254 VT/ TR 2-9	3681 18 41
D 606	LED 484 IT-TR 2-10	3681 18 40
D 607	LED 1254 VT/ TR 2-9	3681 18 43
D 608	LED 1254 GD/TR 2-9	3681 18 39
D 609	LED 1254 GD/TR 2-9	3681 18 39
D 610	LED 1254 VT/ TR 2-9	3681 18 41
D 611	LED 1254 VT/ TR 2-9	3681 18 41
D 612	1 SS 176	3656 30 34
ZD 501	RD 3:0 EB 1-T	3656 36 28
ZD 502,503	RD 5.1 EB 2	3656 36 29
D 504	RD 13 EB 1-T 1	3656 36 20

Pos.-Nr. Ref.No. No.de pos.	Gegenstand Description Description		Bestell-Nr. Part No. No.de comm.
Filter **Filters** **Filtres**			
CF 101			4552 69 87
CF 102			4552 69 87
CF 103			4552 69 88
FE 101			4552 69 90
LPF 101			4552 69 89
CX 201		Quarz 4,5 MHz	4421 22 25
Spulen **Coils** **Bobines**			
L 503			4543 39 36
L 504			4543 39 36
L 509			4421 22 28
Schalter **Switches** **Commutateurs**			
S 101			4112 74 93
S 102			4112 74 93
S 201-222			4112 74 94
S 301-305			4112 74 95
S 601			4112 75 06
S 602			4112 75 06
S 603			4112 74 95
S 604			4112 74 95
S 901-913			4112 74 95
Potentiometer **Trimmer Resistors** **Potentiometres**			
SFR 101		10 k	3112 96 13
SFR 501-504		10 k	3112 96 13
SFR 505,506		200 k	3112 96 14
SFR 507-512		10 k	3112 96 13
VR 201,202			3112 96 15
VR 203			3112 96 16
VR 204			3112 96 17

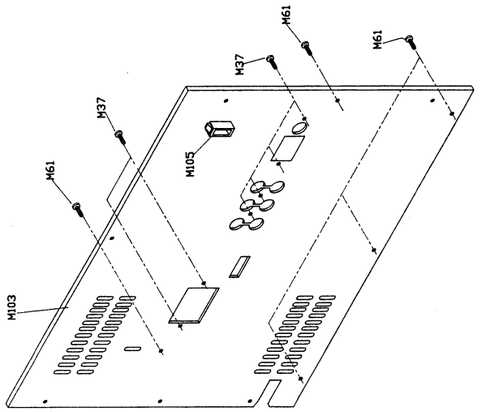
Pos.-Nr. Ref.No. No.de pos.	Gegenstand Description Description	Bestell-Nr. Part No. No.de comm.
Relais **Relay**		
RY 101		4124 88 04
RY 401		4124 88 04
RY 501		4124 88 04
Sicherungswiderstände **Fuse Resistors** **Résistance de sécuritées**		
R 115,116	4,7 Ω 1 W	3151 97 11
R 129,130	18 Ω 2 W	3151 97 12
R 131,132	4,7 Ω 1 W	3151 97 11
R 145,146	680 Ω 2 W	3151 97 13
Trimmer **Trimmers**		
TC 101,102	10 PF	3412 91 45
Sicherungen **Fuses** **Fusibles**		
F 402	2 A / T	4375 21 16
F 501	1,6 A / T	4375 21 17
F 502	2 A / T	4375 21 16
LAM 201		7375 21 15
LAM 202		7375 21 15
Buchsen **Sockets** **prises**		
J 1		4144 83 67
J 2		4144 83 67
J 6		4131 42 70
Netztransformator **Mains Transformer** **Transformateur**		4511 35 05
Antenne (AM) **Antenna (AM)**		4471 90 61
Antenne (FM) **Antenna (FM)**		4471 90 62

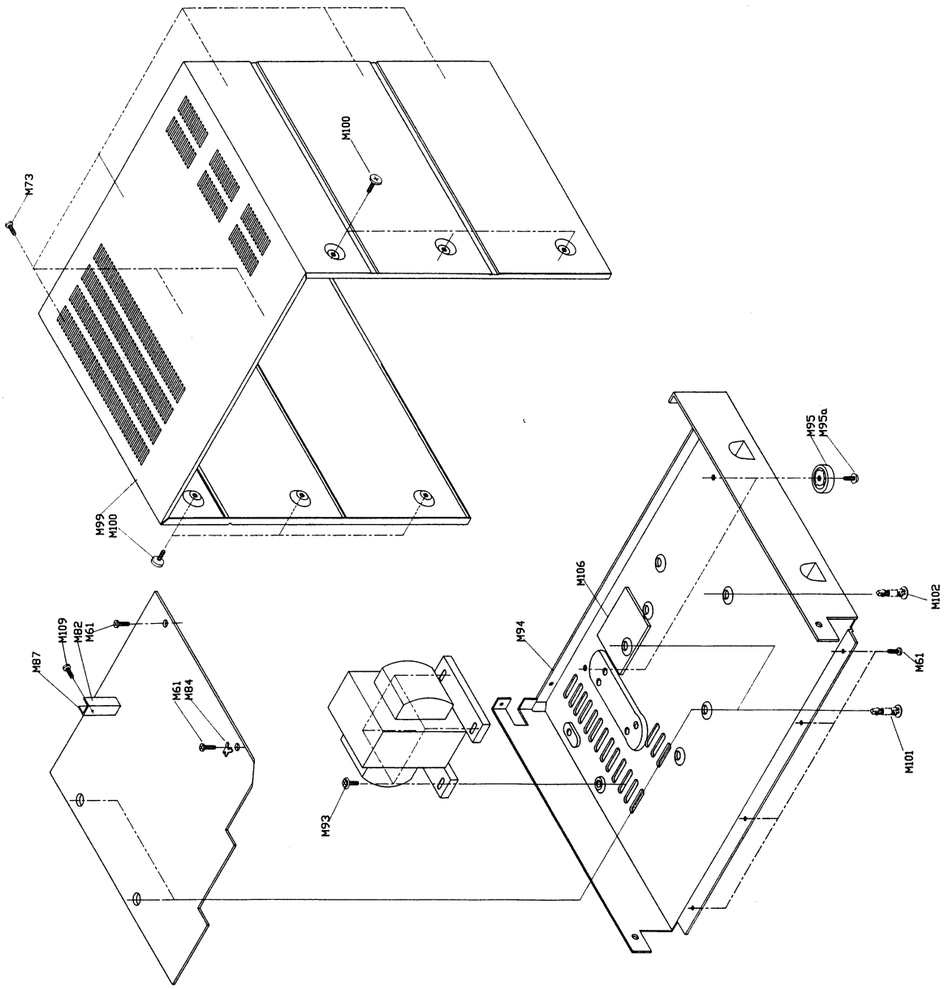
Pos.-Nr. Ref.Nr. No.de pos.	Bestell-Nr. Part No. No.de comm.	Pos.-Nr. Ref.Nr. No.de pos.	Bestell-Nr. Part No. No.de comm.
1	4335 94 59 *	40	3771 67 03
1	4335 94 60 **	43	4432 93 85
2	8681 52 24	45	7618 43 37
4	7358 47 84	61	7358 47 86
6	7525 13 83	62	7358 47 87
7	7358 47 85	63	7358 47 88
8	8318 59 76	65	7358 47 89
9	7548 42 68	66	7358 47 90
10	7538 34 46	69	7358 47 91
12	7538 34 47	70	7358 47 92
14	7525 13 84	71	7358 47 93
17	7525 13 85		
18	4124 88 05		
23	7538 34 48		
24	7618 43 36		
26	7548 42 69		
28	8318 59 77		
29	7525 13 87		
30	8318 59 78		
31	7525 13 88		
33	7548 42 70		
37	6913 66 09		
38	4112 75 12		
39	4112 75 13		
* CASS.DECK	5863 10 59		
** CASS.DECK	5863 10 58		

Cassette Deck Expoloded View



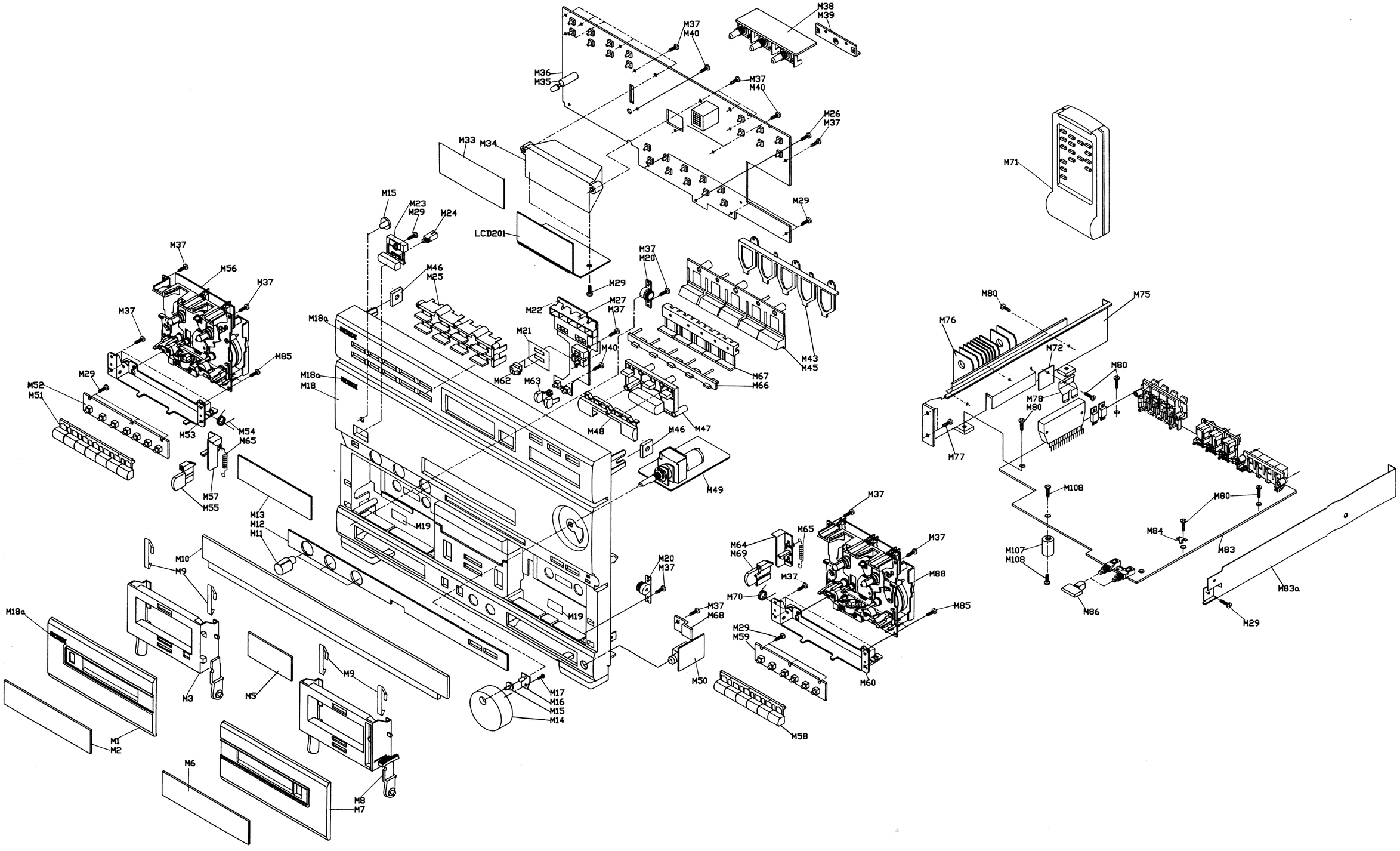
Exploded View (B)



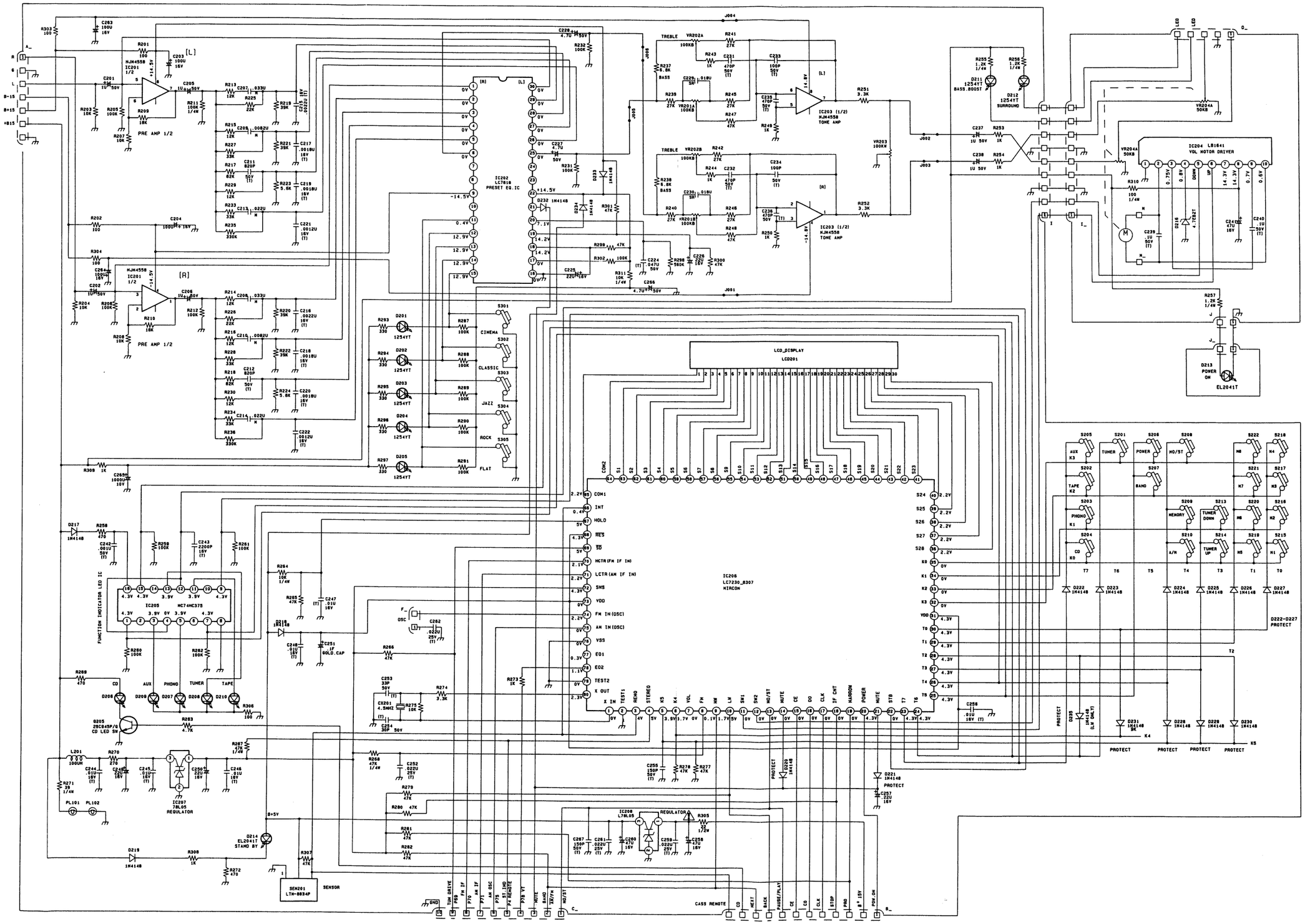


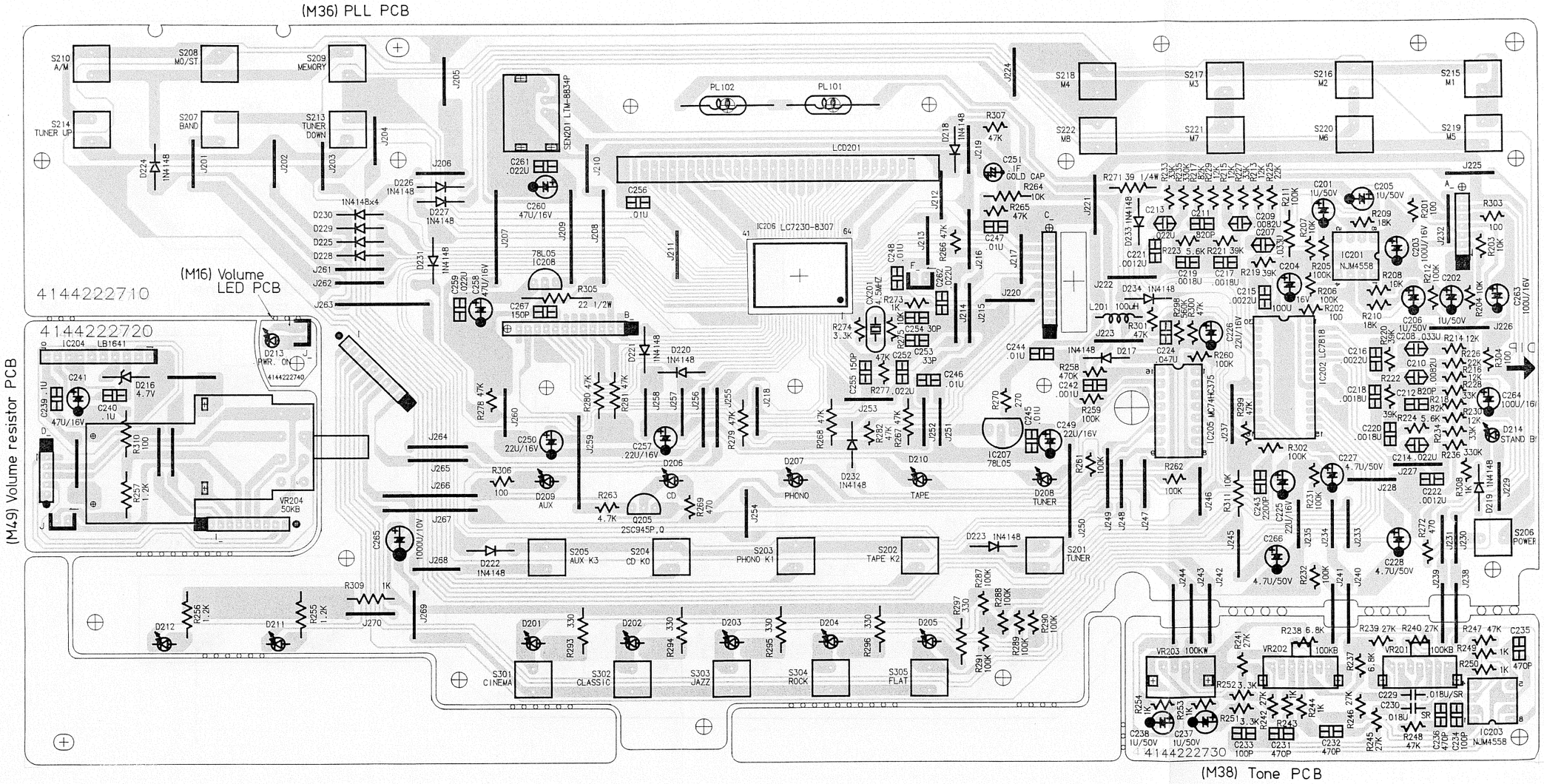
Pos.-Nr. Ref.Nr. No.de pos.	Bestell-Nr. Part No. No.de comm.	Pos.-Nr. Ref.Nr. No.de pos.	Bestell-Nr. Part No. No.de comm.
M 1	6466 03 80	M 63	6328 06 90
M 2	6466 03 81	M 64	8318 59 69
M 3	6131 90 47	M 65	7358 47 76
M 5	6466 03 82	M 66	3681 18 44
M6	6466 03 83	M 67	6328 06 91
M 7	6466 03 84	M 69	6328 06 92
M 8	6131 90 48	M 71	5652 22 92
M 10	6136 13 26	M 83	6913 66 03
M 11	6328 06 79	M 86	6328 06 68
M 13	6466 03 75	M 87	6913 66 04
M 14	6328 06 80	M 88	5863 10 59
M 15	3681 18 42	M 95	6273 40 58
M16	6913 08 94	M 99	6131 90 45
M 18	6418 34 01	M 103	6135 51 66
M 18 A	6466 03 77	SEN 201	6913 08 67
M 20	7525 13 69	Netzkabel main cable câble réseau	4131 42 68
M 22	6913 08 95		
M 23	6328 06 81	Verpackungskarton Packing Case Carton d'emballage	6162 88 53
M 24	4112 74 98		
M 25	6328 06 82		
M 33	6466 03 76	Verpackungspolster links Cushion Ass'y left Coussin d'emballage gauche	6172 30 81
M 34	3686 11 58		
M 36	6913 08 96		
M 38	6913 08 97	Verpackungspolster rechts Cushion Ass'y right Coussin d'emballage droit	6172 30 82
M 43	8681 52 03		
M 45	6328 06 83		
M 47	6328 06 84	Bedienungsanleitung Operating Instruction Mode d'emploi	6612 58 89
M 48	6328 06 85		
M49	6913 08 98		
M 50	6913 08 99		
M 51	6328 06 86		
M 52	6913 66 01		
M 54	7358 47 75		
M 55	6328 06 87		
M 56	5863 10 58		
M 57	8318 59 68		
M 58	6328 06 88		
M 59	6913 66 02		
M 62	6328 06 89		

Expoloded View (A)

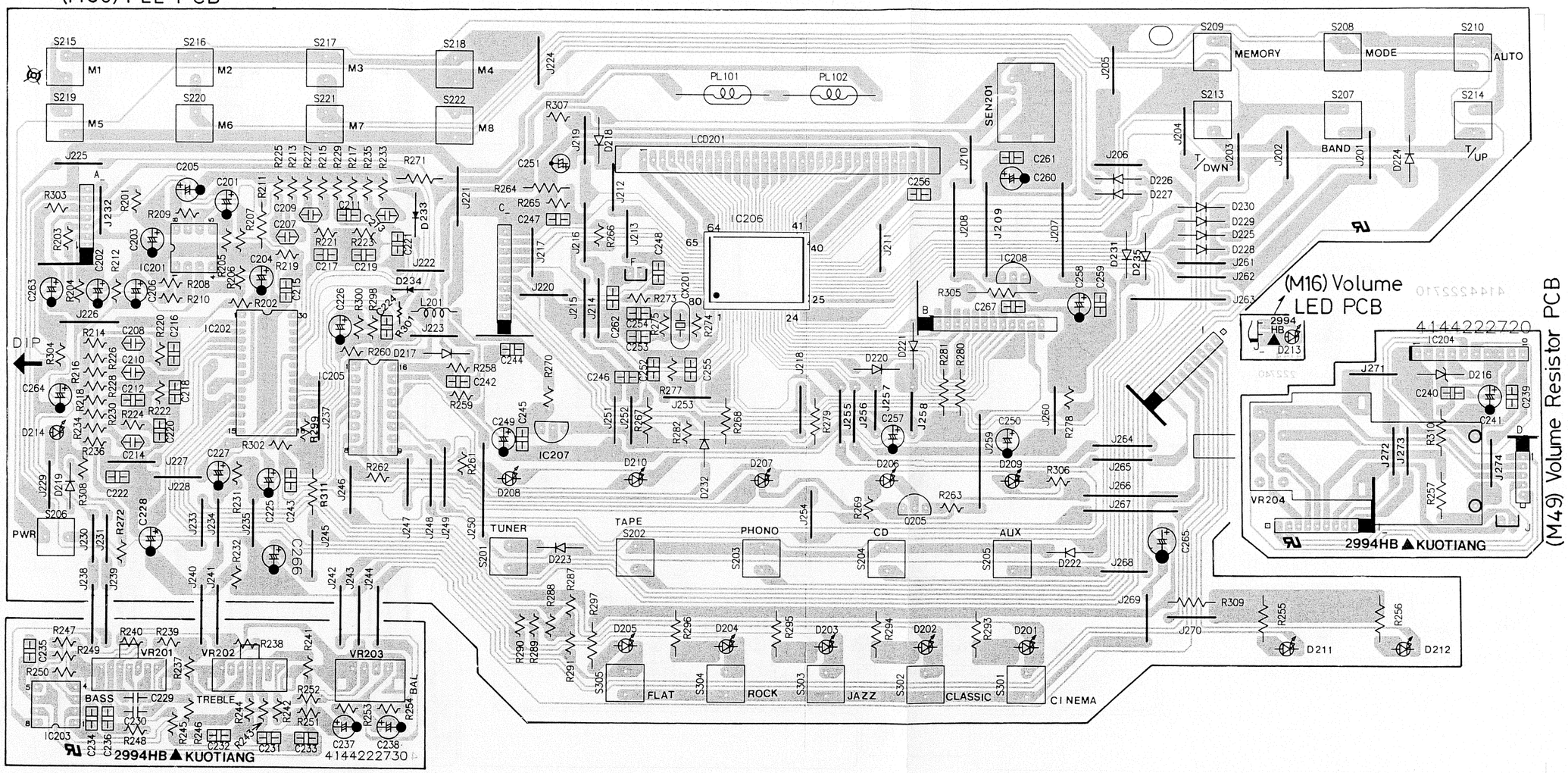


Main Schematic Diagram




(M36) PLL PCB
4144222710
(M16) Volume
LED PCB
4144222720
IC204 LB1641
(M49) Volume resistor PCB
S210 A/M
S208 MO/ST
S209 MEMORY
S214 TUNER UP
S207 BAND
S213 TUNER DOWN
S218 M4
S217 M3
S216 M2
S215 M1
S222 M8
S221 M7
S220 M6
S219 M5
PL102
PL101
SEN201 LTM-8834P
LCD201
IC206 LC7230-8307
IC208 78L05
CX201 4.5MHZ
IC207 78L05
IC201 NJM4558
IC202 LC7818
IC205 MC74HC375
VR204 50KB
VR203 100KW
VR202 100KB
VR201 100KB
IC203 NJM4558
D213 PWR. ON
D205 2SC945P,Q
D232 1N4148
D222 1N4148
D223 1N4148
D1N4148Bx4
S205 AUX K3
S204 CD KO
S203 PHONO K1
S202 TAPE K2
S201 TUNER
S206 POWER
S301 CINEMA
S302 CLASSIC
S303 JAZZ
S304 ROCK
S305 FLAT
D209 AUX
D208 TUNER
D207 PHONO
D206 CD
D210 TAPE
4144222730
(M38) Tone PCB

(M36) PLL PCB

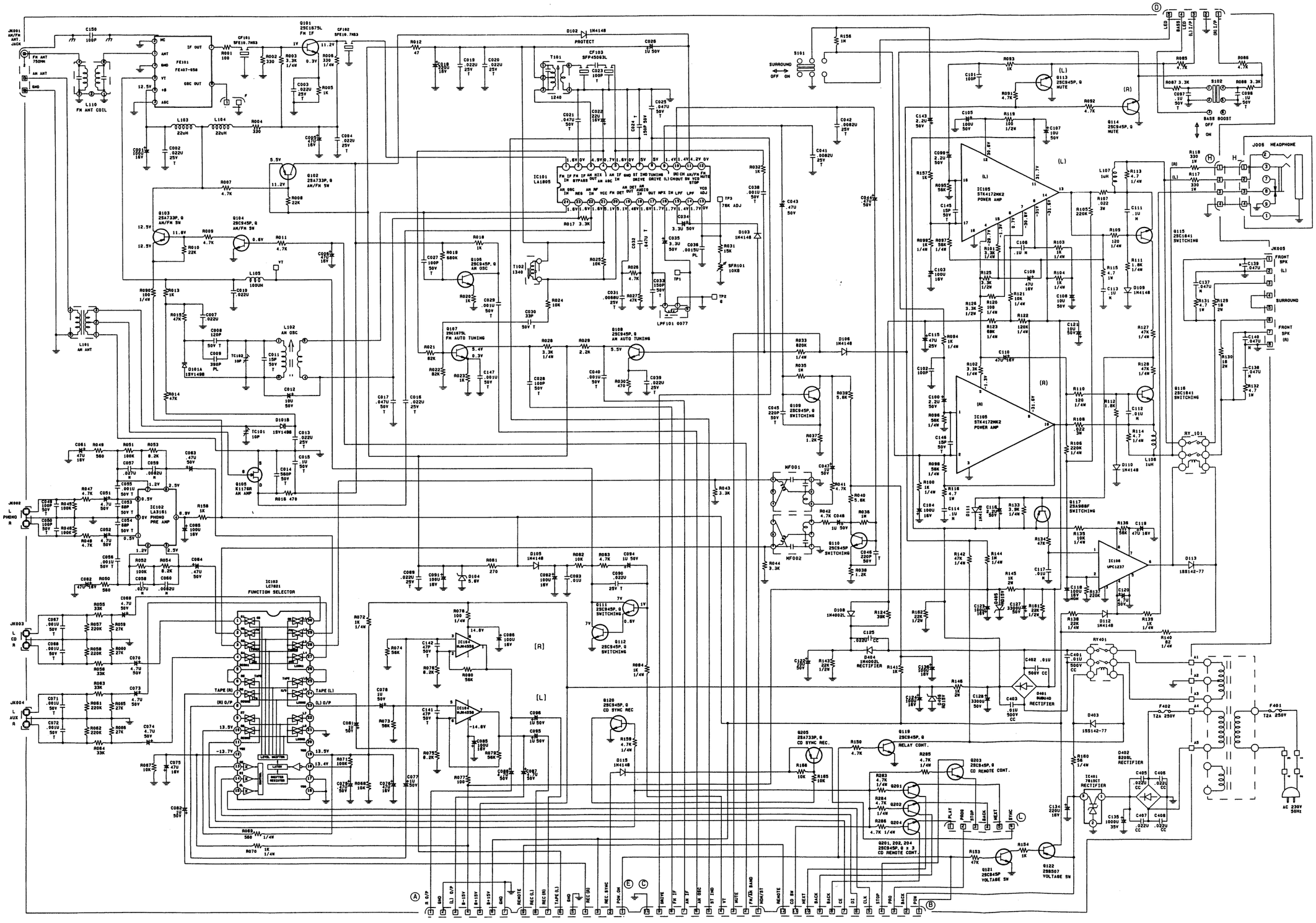


(M38) Tone PCB

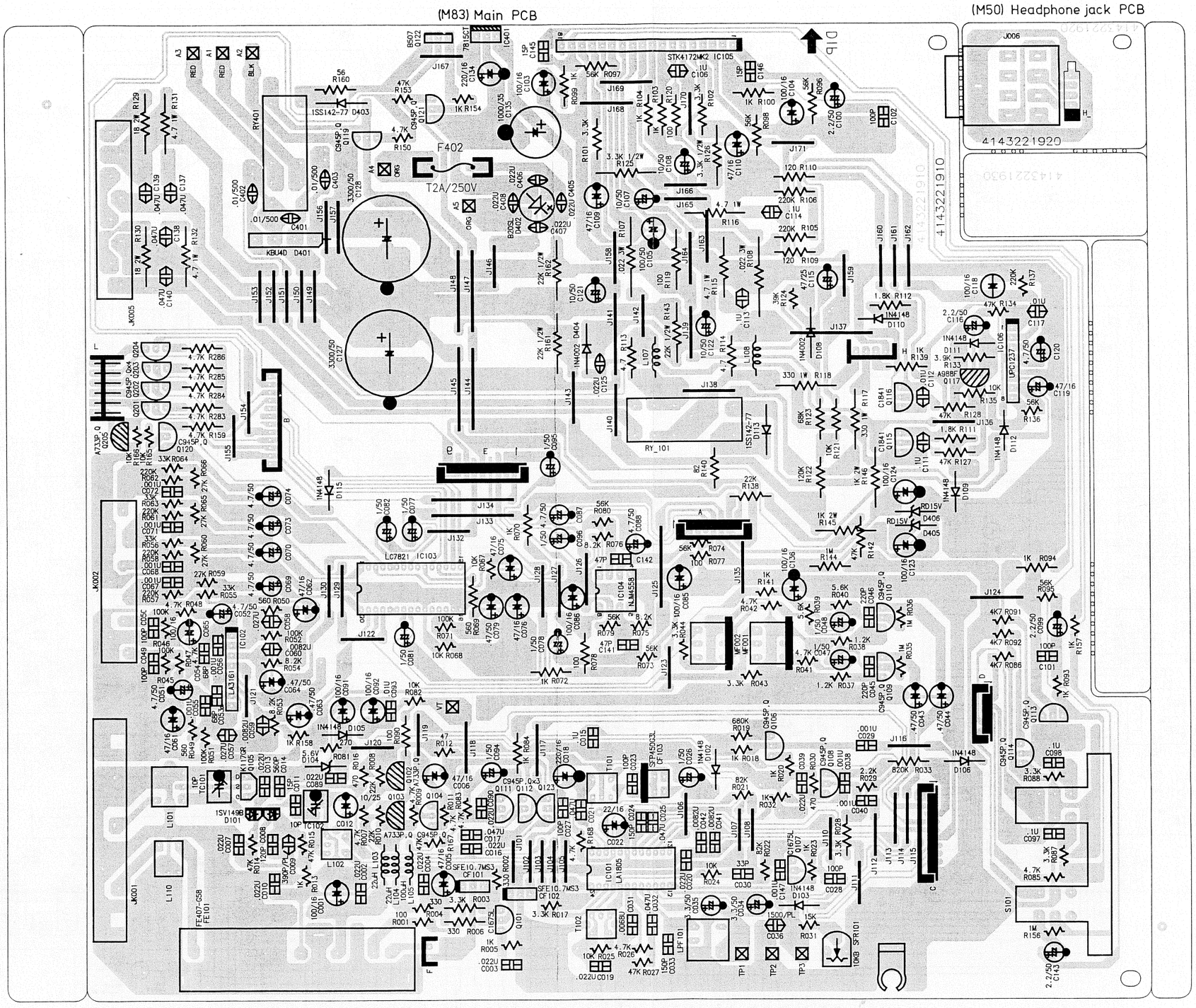
(M16) Volume LED PCB

(M49) Volume Resistor PCB

Tuner Schematic Diagram

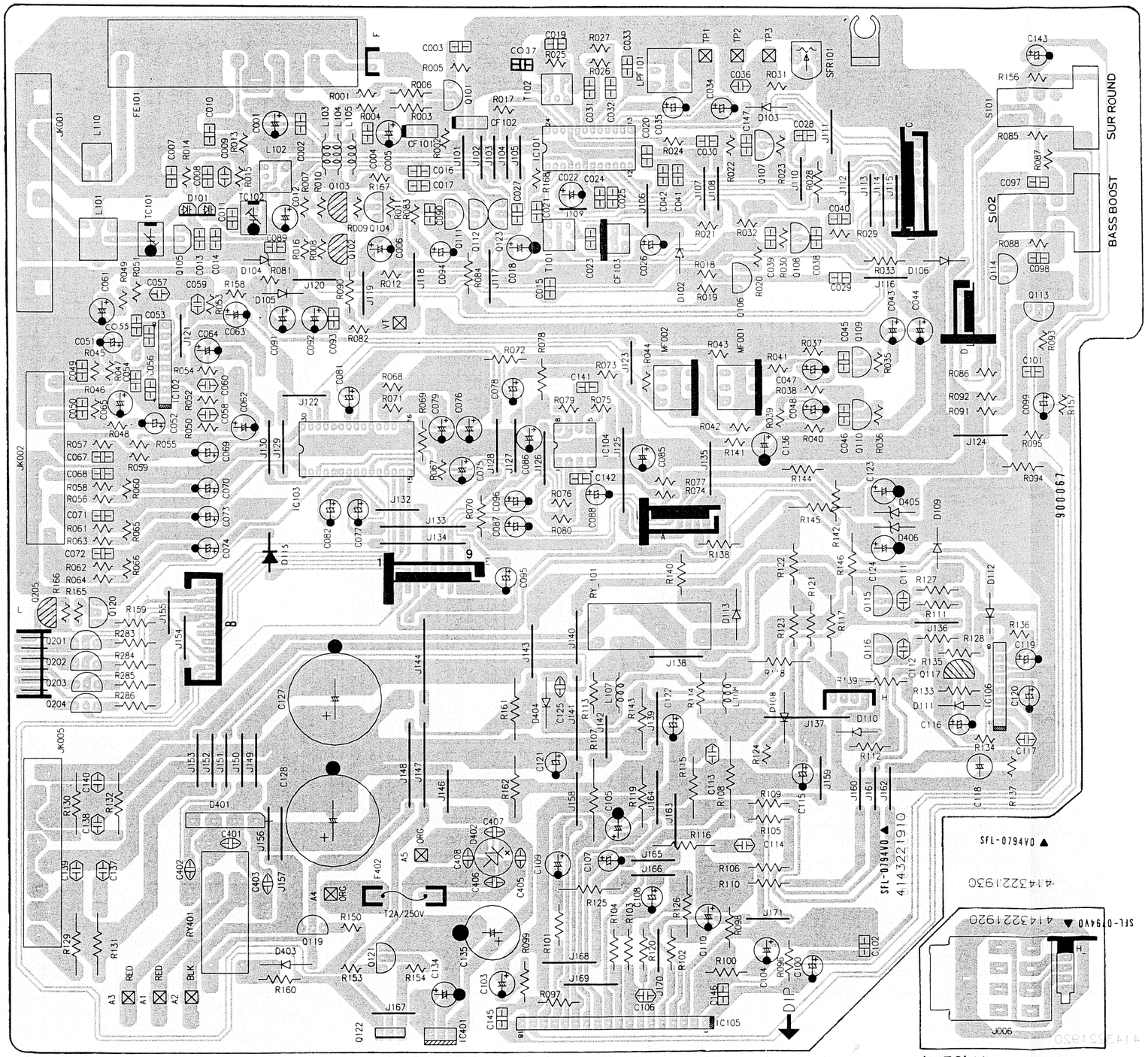


P C Board-Solder Side



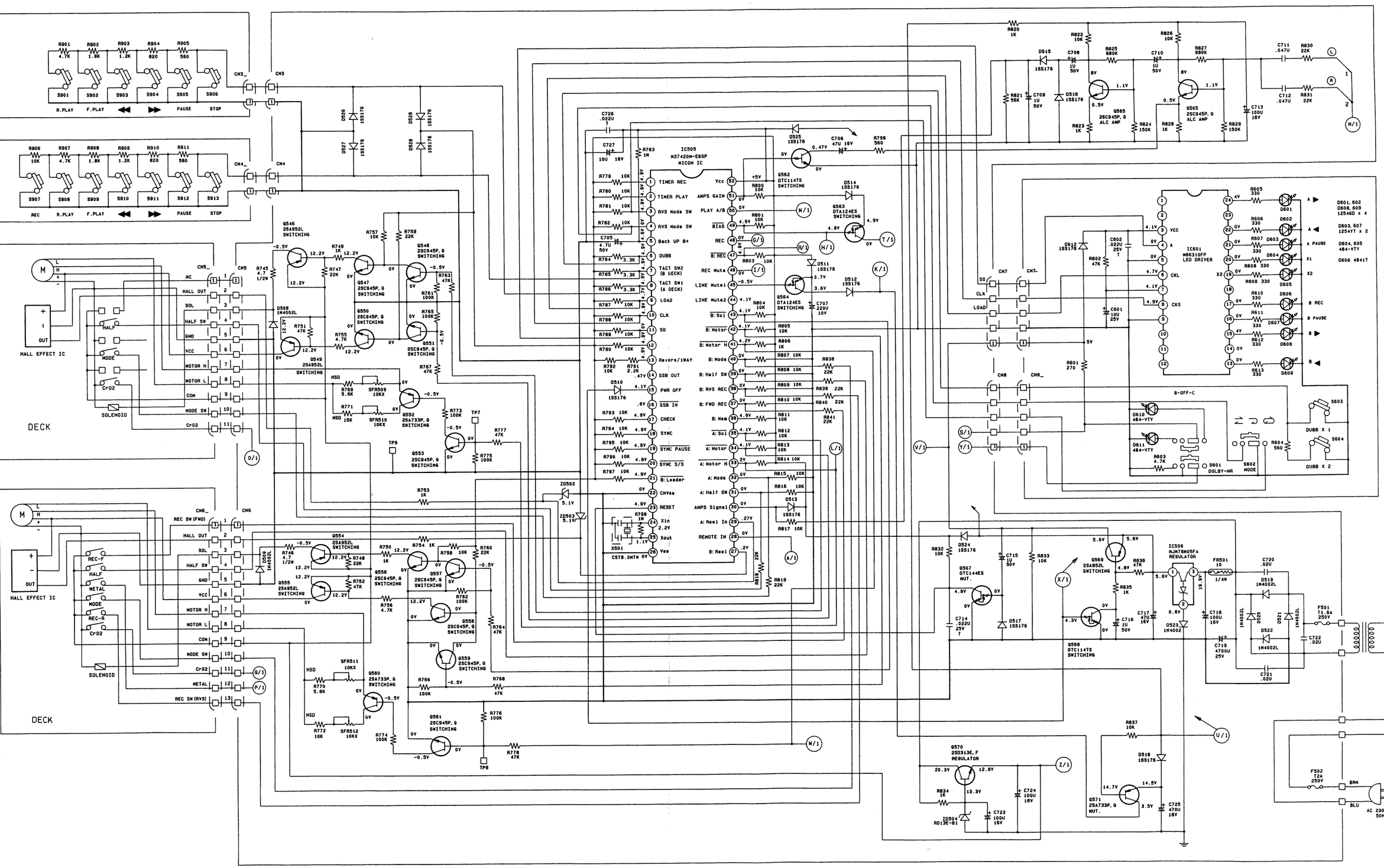
P C Board-Component Side

(M83) Main PCB

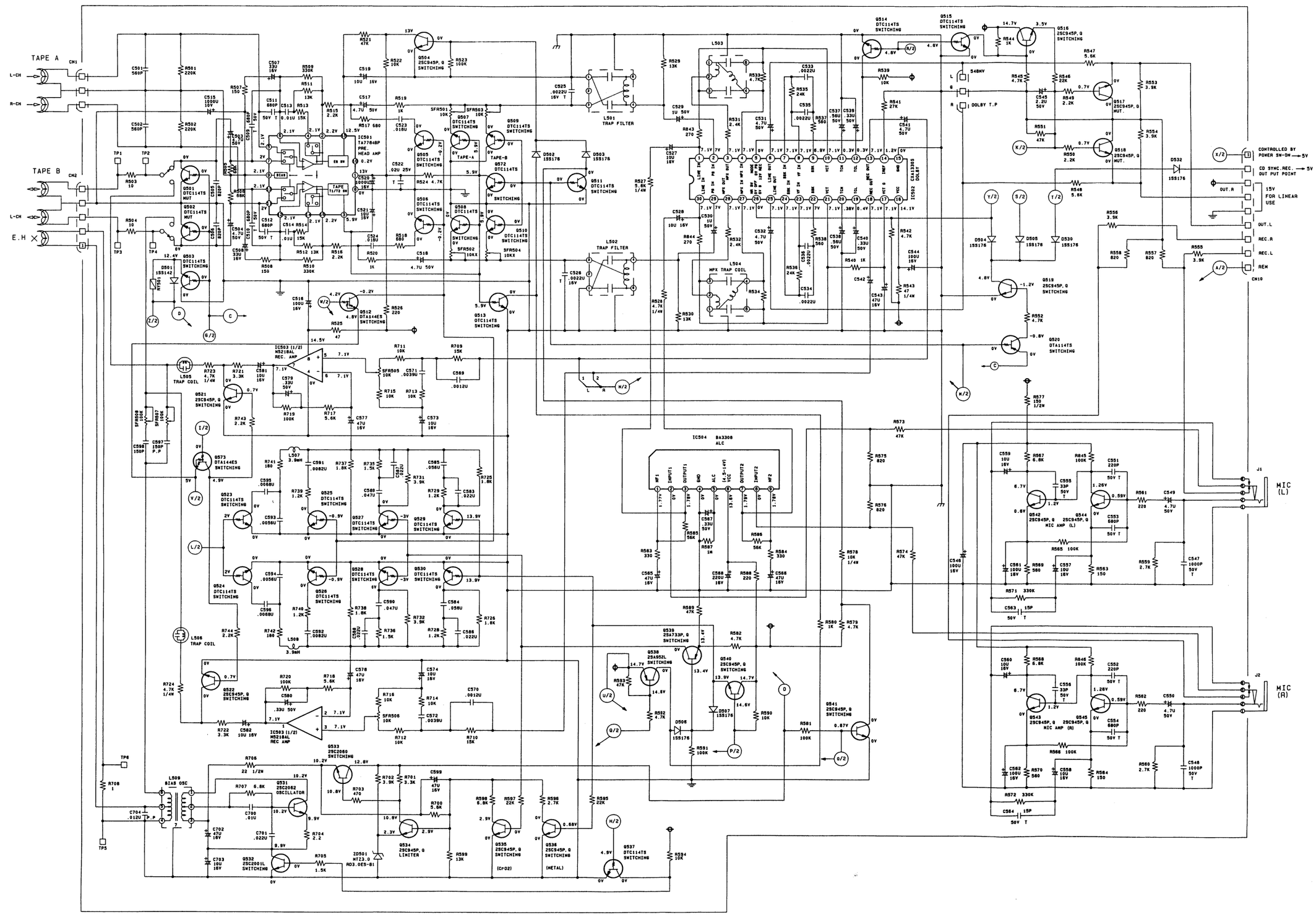


(M50) Headphone jack PCB

Cassette Schematic Diagram (B)

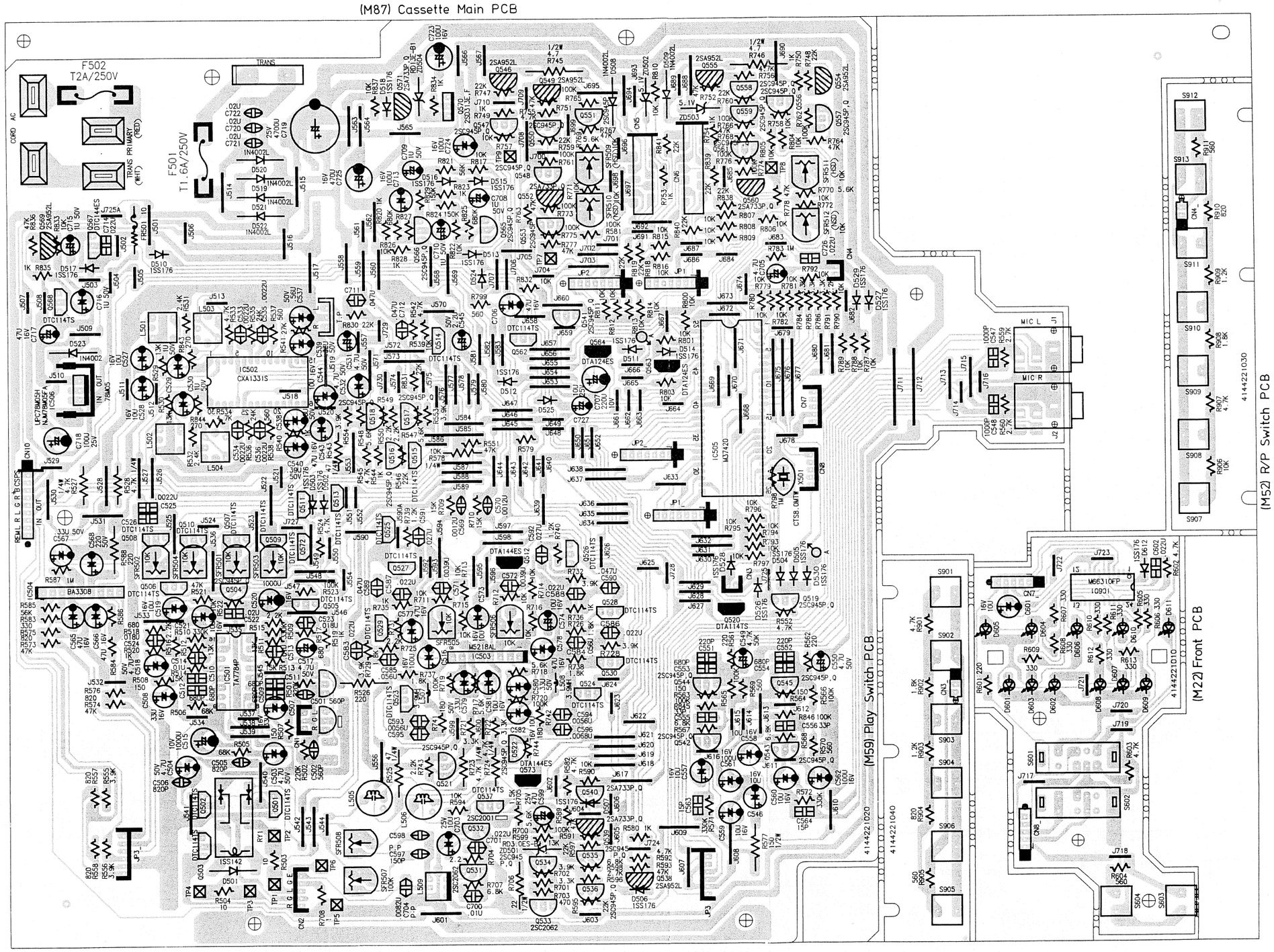


Cassette Schematic Diagram (A)



P C Board-Solder Side

(M87) Cassette Main PCB



(M52) R/P Switch PCB

4144221030

(M22) Front PCB

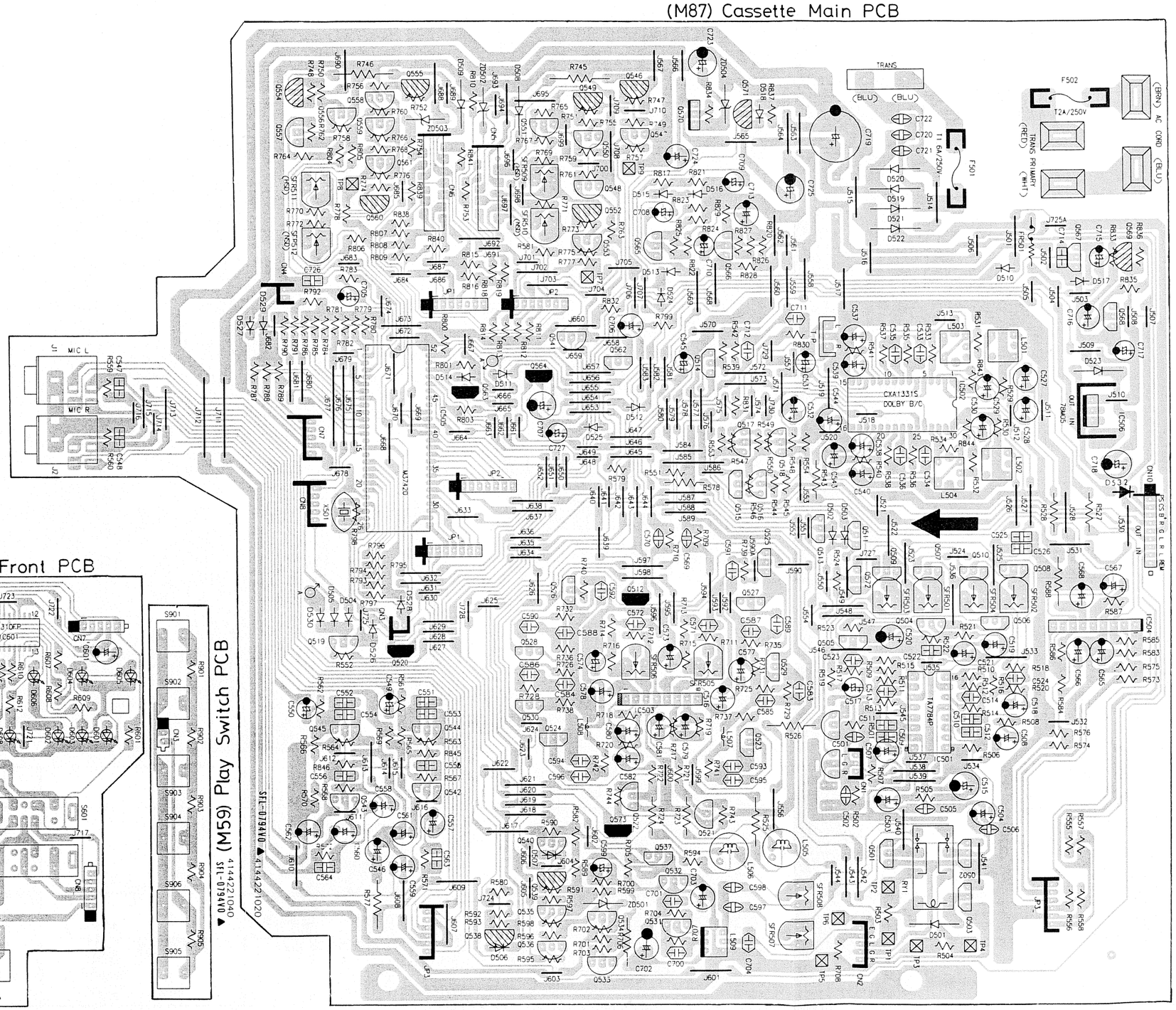
4144221010

(M59) Play Switch PCB

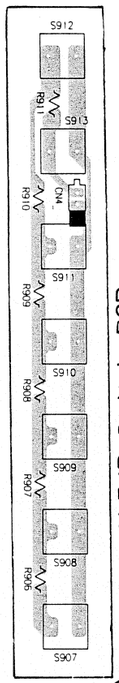
4144221040

P C Board-Component Side

(M87) Cassette Main PCB

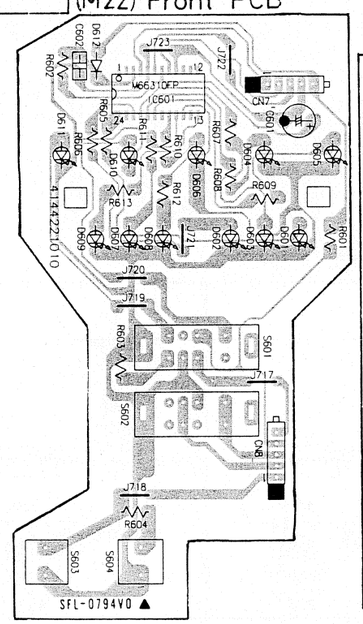


(M52) R/P Switch PCB



4144221030 SFL-0794V0 ▲

(M22) Front PCB



4144221010

SFL-0794V0 ▲

(M59) Play Switch PCB

4144221020

SFL-0794V0 ▲

Wiring Diagram- Component side